PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0266			FOR FURTHER ACTIO	See Prel	Notification of Transmittal of International liminary Examination Report (Form PCT/PEA/416)			
International application No. PCT/IB 02/05445			International filing date (daylmin) 18.12.2002					
A23L3	3/346:	Patent Classification (IPC) or bo	th national classification and IPC					
Applica COUN		OF SCIENTIFIC AND INC	DUSTRIAL RESet al					
1. T	This in Authori	ternational preliminary exam ity and is transmitted to the a	ination report has been prep applicant according to Article	ared by 36.	y this International Preliminary Examining			
2. T	This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 1 sheets.							
		amoved deficient of a total of	i sileets.					
3. T	his re	port contains indications rela	ting to the following items:			ı		
1	×	Basis of the opinion						
П		•		•				
III Non-establishment of opinion with regard to novelty, inventive			tive step and industrial applicability					
í۱	IV Lack of unity of invention			The very, inventive step and industrial applicability				
٧	V 🗵 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement							
VI Certain documents cited								
-	VII Certain defects in the international application							
V	III 🗆	Certain observations on	the international application					
Data of a	au benia	sion of the demand						
Date of S	Submis	sion of the demand	Date o	comple	etion of this report			
17.07.2	17.07.2004			18.03,2005				
Name an prelimina	Name and mailing address of the international preliminary examining authority:			Authorized Officer				
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			1 epo ni Bodd	-	+31 70 340-3471	Command on the Common		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 02/05445

I.	Bas	is d	of i	the	rei	ort
	- 43	13 ("	1116	161	J 4 4

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-7		as originally filed					
	Cla	ims, Numbers						
	1-4		received on 24.12.2004 with letter of 22.12.2004					
2.	Wit lang	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
	the language of publication of the international application (under Rule 48.3(b)).							
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have re	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this					
6.	Add	itional observations i	f necessary					

o. Additional observations, if necessary.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 02/05445

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-4

No: Claims

Inventive step (IS)

Yes: Claims

1-4

No: Claims

Industrial applicability (IA)

Yes: Claims

1-4

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Remark: The expression "in the range of 1:5 - 1:7" mentioned in claim 1 c could be clarified by indicating that the range refers to the ratio of leaves to solvent (cfr. basis in original claim 5).

Document D1 (WO-A-0232440), which is considered to represent the most relevant state of the art, discloses (p.4;p.6-12;claims) the use and the preparation of a natural antioxidant composition for food or pharmaceutical application. Murraya koenigii leaves are washed, dried, powdered, extracted with a polar solvent (f.i. ketonic solvents such as acetone) and evaporating the solvent; from which the subject-matter of claim 1 differs in that the washed curry leaves are dried at a temperature in the range of 30°C - 80°C for a time between 2-10 hours and that the ratio of leaves to polar solvent in the extraction is between 1:5 - 1:7.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as the provision of a more efficient process (less time consuming, easier and more economical) for the preparation of a natural antioxidant comprising oleoresin from Indian curry leaves.

In D1 no hint is given that would solve the problem. Also none of the other prior art documents would lead the skilled person to the solution stated above.

Thus the subject-matter of claim 1 also involves an inventive step (Article 33(3) PCT).

Claims 2-4 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

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Claims

- 1. A simple process for the preparation of safe, environmental friendly, and natural antioxidant conserve comprising oleoresin from Indian curry leaves (*Murraya Koenigii Spreng.*), said process comprising steps of:
 - a. drying the washed curry leaves at temperature in the range of 30-80°C, for time duration ranging between 2-10 hours.
 - b. powdering the dried leaves into coarse powder form,
 - c. extracting the powder with polar solvent preferably ketone with alkyl group in the range of 1:5-1:7.
 - d. obtaining antioxidant conserve comprising oleoresin from the extract by removing the solvent.
- 2. A process as claimed in claim 1, wherein the solvent is acetone and ethyl-methyl ketone.
- 3. A process as claimed inn claim 1, wherein removal of the solvent is at the temperature in the range of 10-40°C.
- 4. A process as claimed in claim 1, wherein the anti-oxidant activity of the extract is in the range of 80 to 85%.

EPO - DG 1

2 4, 12, 2004

8)

AMENDED CLAIMS (CLEAR VERSION; ARTICLE 34)